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## TECHNICAL NOTES

of the

### ALASKA FOREST RESEARCH CENTER

U. S. DEPARTMENT OF AGRICULTURE, FOREST SERVICE

STN PUB

JUNEAU, ALASKA

No. 6

#### Cubic Form Class Volume Tables for Southeast Alaska

Tables for estimating merchantable cubic foot volume of Southeast Alaska stands have previously been based on diameter and height only. The Girard Form Class 1 has been added in constructing the following series of tables to give greater accuracy in local pulptimber cruising.

The tables show gross cubic foot volume inside bark from a usable stump to a 6-inch top since pulp sale contracts call for utilization to a 6-inch top if merchantable.

The form class of the 415 trees used in making the tables ranged from 70 to 95 with 82 percent falling between 80 and 90. Form class 85 was most common for both Sitka spruce and western hemlock. Measuring down trees encountered while cruising is the simplest method of checking form class estimates.

As western red-cedar and Alaska cedar probably will not be used for pulp, their volume would be taken from Girard and Bruce's form class board foot tables for 32-foot logs. 2 These tables check our Southeast Alaska spruce and hemlock very well, and have been recommended for use in saw-timber cruising. How accurate they are for cedar is unknown as few measurements are available for checking.

The cubic tables here presented check the sample trees from which they were made with an aggregate deviation of less than three-tenths of 1 percent, and an average deviation of 7 percent. The standard error of estimate for an individual tree was 11 percent.

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1/ Diameter inside bark at top of first 16-foot log, divided by diameter breast high outside bark.

2/ Tables for estimating board foot volume of trees in 32-foot logs. James W. Girard and Donald Bruce. Mason, Bruce & Girard, American Bank Building, Portland, Oregon.

May 1950

R. F. Taylor  
Forester in Charge



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